

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 08/485,943B  
Source: JFW16  
Date Processed by STIC: 10/11/2005

# ***ENTERED***

CRF Errors Edited by the STIC Systems Branch

Serial Number:

08/485,943B

CRF Edit Date:

10/11/2005

Edited by:

DA

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

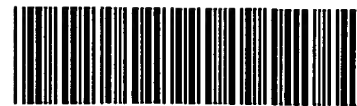
Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

Corrected Seq ID 99 for  
numeric identifier <400>

Revised 09/09/2003



IFW16

RAW SEQUENCE LISTING                      DATE: 10/11/2005  
 PATENT APPLICATION: US/08/485,943B      TIME: 14:25:33

Input Set : A:\PTO.da.txt  
 Output Set: N:\CRF4\10112005\H485943B.raw

## SEQUENCE LISTING

4 (1) GENERAL INFORMATION:  
 6     (i) APPLICANT: THE ROCKEFELLER UNIVERSITY  
 8     (ii) TITLE OF INVENTION: MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC  
 9                                      ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES  
 THEREOF  
 11     (iii) NUMBER OF SEQUENCES: 100  
 13     (iv) CORRESPONDENCE ADDRESS:  
 14         (A) ADDRESSEE: Klauber & Jackson  
 15         (B) STREET: 411 Hackensack Avenue  
 16         (C) CITY: Hackensack  
 17         (D) STATE: New Jersey  
 18         (E) COUNTRY: USA  
 19         (F) ZIP: 07601  
 21     (v) COMPUTER READABLE FORM:  
 22         (A) MEDIUM TYPE: Floppy disk  
 23         (B) COMPUTER: IBM PC compatible  
 24         (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 25         (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
 27     (vi) CURRENT APPLICATION DATA:  
 C--> 28         (A) APPLICATION NUMBER: US/08/485,943B  
 C--> 29         (B) FILING DATE: 07-Jun-1995  
 W--> 45         (C) CLASSIFICATION:  
 42     (vii) PRIOR APPLICATION DATA:  
 33         (A) APPLICATION NUMBER: 08/438,431  
 34         (B) FILING DATE: May 10, 1995  
 38         (A) APPLICATION NUMBER: 08/347,563  
 39         (B) FILING DATE: November 30, 1994  
 43         (A) APPLICATION NUMBER: 08/292,345  
 44         (B) FILING DATE: August 17, 1994  
 47     (viii) ATTORNEY/AGENT INFORMATION:  
 48         (A) NAME: Jackson Esq., David A.  
 49         (B) REGISTRATION NUMBER: 26,742  
 50         (C) REFERENCE/DOCKET NUMBER: 600-1-087 CIP2I  
 52     (ix) TELECOMMUNICATION INFORMATION:  
 53         (A) TELEPHONE: 201 487-5800  
 54         (B) TELEFAX: 201 343-1684  
 55         (C) TELEX: 133521  
 57 (2) INFORMATION FOR SEQ ID NO: 1:  
 59     (i) SEQUENCE CHARACTERISTICS:  
 60         (A) LENGTH: 2793 base pairs  
 61         (B) TYPE: nucleic acid  
 62         (C) STRANDEDNESS: double  
 63         (D) TOPOLOGY: linear

## RAW SEQUENCE LISTING

DATE: 10/11/2005

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Input Set : A:\PTO.da.txt

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65      (ii) MOLECULE TYPE: DNA (genomic)
66          (A) DESCRIPTION: Murine ob cDNA
68      (iii) HYPOTHETICAL: NO
70      (iv) ANTI-SENSE: NO
72      (vi) ORIGINAL SOURCE:
73          (A) ORGANISM: Murine
75      (ix) FEATURE:
76          (A) NAME/KEY: CDS
77          (B) LOCATION: 57..560
80      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
82 GGATCCCTGC TCCAGCAGCT GCAAGGTGCA AGAAGAAGAA GATCCCAGGG AGGAAA      56
84 ATG TGC TGG AGA CCC CTG TGT CGG TTC CTG TGG CTT TGG TCC TAT CTG      104
85 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
86   1           5           10           15
88 TCT TAT GTT CAA GCA GTG CCT ATC CAG AAA GTC CAG GAT GAC ACC AAA      152
89 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
90           20           25           30
92 ACC CTC ATC AAG ACC ATT GTC ACC AGG ATC AAT GAC ATT TCA CAC ACG      200
93 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
94           35           40           45
96 CAG TCG GTA TCC GCC AAG CAG AGG GTC ACT GGC TTG GAC TTC ATT CCT      248
97 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
98   50           55           60
100 GGG CTT CAC CCC ATT CTG AGT TTG TCC AAG ATG GAC CAG ACT CTG GCA      296
101 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala
102 65           70           75           80
104 GTC TAT CAA CAG GTC CTC ACC AGC CTG CCT TCC CAA AAT GTG CTG CAG      344
105 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
106           85           90           95
108 ATA GCC AAT GAC CTG GAG AAT CTC CGA GAC CTC CTC CAT CTG CTG GCC      392
109 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
110           100           105           110
112 TTC TCC AAG AGC TGC TCC CTG CCT CAG ACC AGT GGC CTG CAG AAG CCA      440
113 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
114           115           120           125
116 GAG AGC CTG GAT GGC GTC CTG GAA GCC TCA CTC TAC TCC ACA GAG GTG      488
117 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
118           130           135           140
120 GTG GCT TTG AGC AGG CTG CAG GGC TCT CTG CAG GAC ATT CTT CAA CAG      536
121 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
122 145           150           155           160
124 TTG GAT GTT AGC CCT GAA TGC TGA AGTTTCAAAG GCCACCAGGC TCCCAAGA      588
125 Leu Asp Val Ser Pro Glu Cys *
126           165
128 ATCATGTAGA GGGAAGAAAC CTTGGCTTCC AGGGGTCTTC AGGAGAAGAG AGCCATGTGC      648
130 ACACATCCAT CATTCAATTC TCTCCCTCCT GTAGACCACC CATCCAAAGG CATGACTCCA      708
132 CAATGCTTGA CTCAAGTTAT CCACACAAC TCAATGAGCAC AAGGAGGGGC CAGCCTGCAG      768
134 AGGGGACTCT CACCTAGTTC TTCAGCAAGT AGAGATAAGA GCCATCCCAT CCCCTCCATG      828
136 TCCCACCTGC TCCGGGTACA TGTTCTCCG TGGGTACACG CTTGCTGCG GCCCAGGAGA      888

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DATE: 10/11/2005

PATENT APPLICATION: US/08/485,943B

TIME: 14:25:33

Input Set : A:\PTO.da.txt

Output Set: N:\CRF4\10112005\H485943B.raw

```

138 GGTGAGGTAG GGATGGGTAG AGCCTTTGGG CTGTCTCAGA GTCTTTGGGA GCACCGTGAA      948
140 GGCTGCATCC ACACACAGCT GGAAACTCCC AAGCAGCACA CGATGGAAGC ACTTATTTAT      1008
142 TTATTCTGCA TTCTATTTTG GATGGATCTG AAGCAAGGCA TCAGCTTTTT CAGGCTTTGG      1068
144 GGGTCAGCCA GGATGAGGAA GGCTCCTGGG GTGCTGCTTT CAATCCTATT GATGGGTCTG      1128
146 CCCGAGGCAA ACCTAATTTT TGAGTGACTG GAAGGAAGGT TGGGATCTTC CAAACAAGAG      1188
148 TCTATGCAGG TAGCGCTCAA GATTGACCTC TGGTGACTGG TTTTGTCTTCT ATTGTGACTG      1248
150 ACTCTATCCA AACACGTTTG CAGCGGCATT GCCGGGAGCA TAGGCTAGGT TATTATCAAA      1308
152 AGCAGATGAA TTTTGTCAAG TGTAATATGT ATCTATGTGC ACCTGAGGGT AGAGGATGTG      1368
154 TTAGAGGGAG GGTGAAGGAT CCGGAAGTGT TCTCTGAATT ACATATGTGT GGTAGGCTTT      1428
156 TCTGAAAGGG TGAGGCATTT TCTTACCTCT GTGGCCACAT AGTGTGGCTT TGTGAAAAGG      1488
158 ACAAAGGAGT TGACTCTTTC CGGAACATTT GGAGTGACC AGGCACCTT GGAGGGGCTA      1548
160 AAGCTACAGG CCTTTTGTTG GCATATTGCT GAGCTCAGGG AGTGAGGGCC CCACATTTGA      1608
162 GACAGTGAGC CCCAAGAAAA GGGTCCCTGG TGTAGATCTC CAAGGTTGTC CAGGGTTGAT      1668
164 CTCACAATGC GTTCTTAAG CAGGTAGACG TTTGCATGCC AATATGTGGT TCTCATCTGA      1728
166 TTGGTTCATC CAAAGTAGAA CCCTGTCTCC CACCCATTCT GTGGGGAGTT TTGTTCCAGT      1788
168 GGAATGAGA AATCACTTAG CAGATGGTCC TGAGCCCTGG GCCAGCACTG CTGAGGAAGT      1848
170 GCCAGGGCCC CAGGCCAGGC TGCCAGAATT GCCCTTCGGG CTGGAGGATG AACAAAGGGG      1908
172 CTTGGGTTTT TCCATCACCC CTGCACCTA TGTCACCATC AAAGTGGGGG GCAGATCAGT      1968
174 GAGAGGACAC TTGATGGAAG GCAATACACT TTAAGACTGA GCACAGTTTC GTGCTCAGCT      2028
176 CTGTCTGGTG CTGTGAGCTA GAGAAGCTCA CCACATACAT ATAAAAATCA GAGGCTCATG      2088
178 TCCCTGTGGT TAGACCCCTAC TCGCGGCGGT GTACTCCACC ACAGCAGCAC CGCACCGCTG      2148
180 GAAGTACAGT GCTGTCTTCA ACAGGTGTGA AAGAACCTGA GCTGAGGGTG ACAGTGCCCA      2208
182 GGGGAACCCCT GCTTGCAGTC TATTGCATTT ACATACCGCA TTTCAGGGCA CATTAGCATC      2268
184 CACTCCTATG GTAGCACACT GTTGACAATA GGACAAGGGA TAGGGGTTGA CTATCCCTTA      2328
186 TCCAAAATGC TTGGGACTAG AAGAGTTTTG GATTTTAGAG TCTTTTCAGG CATAGGTATA      2388
188 TTTGAGTATA TATAAAATGA GATATCTTGG GGATGGGGCC CAAGTATAAA CATGAAGTTC      2448
190 ATTTATATTT CATAATACCG TATAGACACT GCTTGAAGTG TAGTTTTATA CAGTGTTTTA      2508
192 AATAACGTTG TATGCATGAA AGACGTTTTT ACAGCATGAA CCTGTCTACT CATGCCAGCA      2568
194 CTCAAAAACC TTGGGGTTTT GGAGCAGTTT GGATCTTGGG TTTTCTGTTA AGAGATGGTT      2628
196 AGCTTATACC TAAAACCATTA ATGGCAAACA GGCTGCAGGA CCAGACTGGA TCCTCAGCCC      2688
198 TGAAGTGTGC CCTTCCAGCC AGGTCATACC CTGTGGAGGT GAGCGGGATC AGGTTTTGTG      2748
200 GTGCTAAGAG AGGAGTTGGA GGTAGATTTT GGAGGATCTG AGGGC      2793

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203 (2) INFORMATION FOR SEQ ID NO: 2:

205 (i) SEQUENCE CHARACTERISTICS:

206 (A) LENGTH: 167 amino acids

207 (B) TYPE: amino acid

208 (D) TOPOLOGY: linear

210 (ii) MOLECULE TYPE: protein

211 (A) DESCRIPTION: Murine ob polypeptide

213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```

215 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
216   1           5           10           15
218 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
219           20           25           30
221 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
222           35           40           45
224 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
225           50           55           60
227 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala

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## RAW SEQUENCE LISTING

DATE: 10/11/2005

PATENT APPLICATION: US/08/485,943B

TIME: 14:25:33

Input Set : A:\PTO.da.txt

Output Set: N:\CRF4\10112005\H485943B.raw

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228 65                               70                               75                               80
230 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
231                               85                               90                               95
233 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
234                               100                              105                              110
236 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
237                               115                              120                              125
239 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
240                               130                              135                              140
242 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
243 145                               150                              155                              160
245 Leu Asp Val Ser Pro Glu Cys
246                               165
249 (2) INFORMATION FOR SEQ ID NO: 3:
251 (i) SEQUENCE CHARACTERISTICS:
252 (A) LENGTH: 700 base pairs
253 (B) TYPE: nucleic acid
254 (C) STRANDEDNESS: double
255 (D) TOPOLOGY: linear
257 (ii) MOLECULE TYPE: cDNA
258 (A) DESCRIPTION: Human ob cDNA where N represents any nucleotide
260 (iii) HYPOTHETICAL: NO
262 (iv) ANTI-SENSE: NO
264 (vi) ORIGINAL SOURCE:
265 (A) ORGANISM: Human
267 (ix) FEATURE:
268 (A) NAME/KEY: CDS
269 (B) LOCATION: 46..546
272 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
274 NNNGNNGTTG CAAGGCCCAA GAAGCCCANNTTCCTGGGAA GGAAA ATG CAT TGG 54
275                               Met His Trp
276                               1
278 GGA ACC CTG TGC GGA TTC TTG TGG CTT TGG CCC TAT CTT TTC TAT GTC 102
279 Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu Phe Tyr Val
280 5 10 15
282 CAA GCT GTG CCC ATC CAA AAA GTC CAA GAT GAC ACC AAA ACC CTC ATC 150
283 Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile
284 20 25 30 35
286 AAG ACA ATT GTC ACC AGG ATC AAT GAC ATT TCA CAC ACG CAG TCA GTC 198
287 Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val
288 40 45 50
290 TCC TCC AAA CAG AAA GTC ACC GGT TTG GAC TTC ATT CCT GGG CTC CAC 246
291 Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His
292 55 60 65
294 CCC ATC CTG ACC TTA TCC AAG ATG GAC CAG ACA CTG GCA GTC TAC CAA 294
295 Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala Val Tyr Gln
296 70 75 80
298 CAG ATC CTC ACC AGT ATG CCT TCC AGA AAC GTG ATC CAA ATA TCC AAC 342
299 Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln Ile Ser Asn

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## RAW SEQUENCE LISTING

DATE: 10/11/2005

PATENT APPLICATION: US/08/485,943B

TIME: 14:25:33

Input Set : A:\PTO.da.txt

Output Set: N:\CRF4\10112005\H485943B.raw

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300      85          90          95
302 GAC CTG GAG AAC CTC CGG GAT CTT CTT CAC GTG CTG GCC TTC TCT AAG      390
303 Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala Phe Ser Lys
304 100          105          110          115
306 AGC TGC CAC TTG CCC TGG GCC AGT GGC CTG GAG ACC TTG GAC AGC CTG      438
307 Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu Asp Ser Leu
308          120          125          130
310 GGG GGT GTC CTG GAA GCT TCA GGC TAC TCC ACA GAG GTG GTG GCC CTG      486
311 Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val Val Ala Leu
312          135          140          145
314 AGC AGG CTG CAG GGG TCT CTG CAG GAC ATG CTG TGG CAG CTG GAC CTC      534
315 Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln Leu Asp Leu
316          150          155          160
318 AGC CCT GGG TGC TGAGGCCTT GAAGGTCACT CTCCTGCAA GGACTNACGT      585
319 Ser Pro Gly Cys
320          165
322 TAAGGGAAGG AACTCTGGTT TCCAGGTATC TCCAGGATTG AAGAGCATTG CATGGACACC      645
324 CCTTATCCAG GACTCTGTCA ATTTCCCTGA CTCCTCTAAG CCACTCTTCC AAAGG      700
327 (2) INFORMATION FOR SEQ ID NO: 4:
329 (i) SEQUENCE CHARACTERISTICS:
330 (A) LENGTH: 167 amino acids
331 (B) TYPE: amino acid
332 (D) TOPOLOGY: linear
334 (ii) MOLECULE TYPE: protein
335 (A) DESCRIPTION: Human ob polypeptide
337 (vi) ORIGINAL SOURCE:
339 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
341 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
342 1      5      10      15
344 Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
345          20      25      30
347 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
348          35      40      45
350 Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
351          50      55      60
353 Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
354          65      70      75      80
356 Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
357          85      90      95
359 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
360          100      105      110
363 Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
364          115      120      125
367 Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
368          130      135      140
370 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
371          145      150      155      160
374 Leu Asp Leu Ser Pro Gly Cys
375          165

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## VERIFICATION SUMMARY

DATE: 10/11/2005

PATENT APPLICATION: US/08/485,943B

TIME: 14:25:34

Input Set : A:\PTO.da.txt

Output Set: N:\CRF4\10112005\H485943B.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:45 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:436 M:220 C: Keyword misspelled or invalid format, [(A) DESCRIPTION:]  
L:509 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8  
L:529 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9  
L:571 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11  
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13  
L:673 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14  
L:695 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15  
L:717 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16  
L:830 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=21  
L:1128 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29  
L:1148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30  
L:1170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31  
L:1192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32  
L:1214 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33  
L:1234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34  
L:1255 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35  
L:1276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36  
L:1297 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37  
L:1339 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39  
L:1362 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40  
L:1385 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41  
L:1407 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42  
L:1430 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43  
L:1453 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44  
L:1474 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45  
L:1496 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46  
L:1519 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47  
L:1541 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48  
L:1564 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49  
L:1587 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50  
L:1610 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51  
L:1633 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52  
L:1655 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=53  
L:1678 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=54  
L:1701 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55  
L:1724 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56  
L:1747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57  
L:1770 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58  
L:1793 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59  
L:1816 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60  
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L:1862 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=62  
L:1885 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63



**VERIFICATION SUMMARY**

DATE: 10/11/2005

PATENT APPLICATION: US/08/485,943B

TIME: 14:25:34

Input Set : A:\PTO.da.txt

Output Set: N:\CRF4\10112005\H485943B.raw

L:1907 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64  
L:1930 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65  
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L:1977 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=67  
L:2000 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=68  
L:2021 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=69  
L:2044 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=70  
L:2067 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=71  
L:2090 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=72  
L:2113 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=73  
L:2136 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74

**Raw Sequence Listing before editing,  
for reference only**



IFW16

## RAW SEQUENCE LISTING

DATE: 10/05/2005

PATENT APPLICATION: US/08/485,943B

TIME: 11:48:22

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10052005\H485943B.raw

## SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: THE ROCKEFELLER UNIVERSITY

8 (ii) TITLE OF INVENTION: MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC  
9 ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES  
THEREOF

11 (iii) NUMBER OF SEQUENCES: 100

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Klauber & Jackson

15 (B) STREET: 411 Hackensack Avenue

16 (C) CITY: Hackensack

17 (D) STATE: New Jersey

18 (E) COUNTRY: USA

19 (F) ZIP: 07601

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/08/485,943B

C--> 29 (B) FILING DATE: 07-Jun-1995

W--> 45 (C) CLASSIFICATION:

42 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: 08/438,431

34 (B) FILING DATE: May 10, 1995

38 (A) APPLICATION NUMBER: 08/347,563

39 (B) FILING DATE: November 30, 1994

43 (A) APPLICATION NUMBER: 08/292,345

44 (B) FILING DATE: August 17, 1994

47 (viii) ATTORNEY/AGENT INFORMATION:

48 (A) NAME: Jackson Esq., David A.

49 (B) REGISTRATION NUMBER: 26,742

50 (C) REFERENCE/DOCKET NUMBER: 600-1-087 CIP2I

52 (ix) TELECOMMUNICATION INFORMATION:

53 (A) TELEPHONE: 201 487-5800

54 (B) TELEFAX: 201 343-1684

55 (C) TELEX: 133521

Does Not Comply  
Corrected Diskette Needed  
(pg-2)

## ERRORED SEQUENCES

2828 (2) INFORMATION FOR SEQ ID NO: 99:

2830 (i) SEQUENCE CHARACTERISTICS:

## RAW SEQUENCE LISTING

DATE: 10/05/2005

PATENT APPLICATION: US/08/485,943B

TIME: 11:48:22

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10052005\H485943B.raw

2831 (A) LENGTH: 20 amino acids  
2832 (B) TYPE: amino acid  
2833 (D) TOPOLOGY: linear  
2835 (ii) MOLECULE TYPE: peptide  
2837 (v) FRAGMENT TYPE: N-terminal  
E--> 2840 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98  
2842 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro  
2843 1 5 10 15  
2845 Arg Gly Ser Pro  
2846 20

99

## VERIFICATION SUMMARY

DATE: 10/05/2005

PATENT APPLICATION: US/08/485,943B

TIME: 11:48:23

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10052005\H485943B.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:45 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:436 M:220 C: Keyword misspelled or invalid format, [(A) DESCRIPTION:]  
L:509 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8  
L:529 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9  
L:571 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11  
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13  
L:673 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14  
L:695 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15  
L:717 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16  
L:830 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=21  
L:1128 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29  
L:1148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30  
L:1170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31  
L:1192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32  
L:1214 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33  
L:1234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34  
L:1255 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35  
L:1276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36  
L:1297 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37  
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L:1362 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40  
L:1385 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41  
L:1407 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42  
L:1430 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43  
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L:1610 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51  
L:1633 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52  
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L:1701 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55  
L:1724 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56  
L:1747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57  
L:1770 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58  
L:1793 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59  
L:1816 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60  
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L:1862 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=62  
L:1885 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63

**VERIFICATION SUMMARY**

DATE: 10/05/2005

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TIME: 11:48:23

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10052005\H485943B.raw

L:1907 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64  
L:1930 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65  
L:1953 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=66  
L:1977 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=67  
L:2000 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=68  
L:2021 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=69  
L:2044 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=70  
L:2067 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=71  
L:2090 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=72  
L:2113 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=73  
L:2136 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74  
L:2840 M:212 E: (34) Invalid or duplicate Sequence ID Number, Value=[98:]